## Exhibit H

	Page 1
1	
2	IN THE UNITED STATES DISTRICT COURT
3	FOR THE SOUTHERN DISTRICT OF NEW YORK
4	Case No. 1:20-cv-01106-LGS
5	x
6	KEWAZINGA CORP.,
7	Plaintiff,
8	-against-
9	GOOGLE, LLC,
10	Defendant.
11	x
12	November 16, 2020
	10:11 a.m.
13	
14	
15	Remote Videotaped Deposition
16	of JEFFREY LUBIN, an Expert Witness in
17	the above-entitled action, located in
18	Princeton, New Jersey, taken Via Zoom
19	before Dawn Matera, a Shorthand Reporter
20	and Notary Public.
21	* * *
22	
23	
24	
25	Job No. CS4338777

1	Page 2		Page 4
1		1	Lubin
$\begin{vmatrix} 2 \\ 3 \end{vmatrix}$	APPEARANCES:	2	THE VIDEOGRAPHER: Good morning
4	STROOCK STROOCK & LAVAN LLP	3	We are going on the record at
5	Attorneys for Plaintiff 180 Maiden Lane	4	a.m. on November 16th, 2020. Please
	New York, New York 10038	5	note the microphones are sensitive and
6	(212)806-5400 Pro SALINAY DESAL ESO	6	may pick up whispering, private
7	By: SAUNAK DESAI, ESQ. sdesai@stroock.com	7	conversations and cellular
8	IAN DIBERNARDO, ESQ.	8	interference. Audio and video
9	idibernardo@stroock.com	9	recording will continue until all
10		10	parties agree to go off the record.
	DESMARAIS LLP	11	This is media number 1 of the
11	Attorneys for Defendant 101 California Street	12	video deposition of Dr. Jeffrey Lubin
12	San Francisco, California 94111	13	taken by counsel for defendant in the
13	(415)573-1806	14	matter of Kewazinga Corporation versus
13	By: EMILY CHEN, ESQ.	15	Google, LLC filed in the United States
14	echen@desmarais.com	16	District Court for the Southern
15	AMEET MODI, ESQ. emodi@desmarais.com	17	District of New York, case number
10	DAVID FREY, ESQ.	18	1:20-cv-01106-LGS.
16 17	dfrey@desmarais.com	19	This deposition is being held at
	Also Present:	20	multiple locations via
19	JONATHAN POPHAM, Videographer	21	videoconference. My name is Jonathan
20 21	~000~	22	Popham from Veritext and I am the
22		23	videographer. The court reporter is
23 24		24	Dawn Matera, also from Veritext.
25		25	I am not authorized to
	Page 3		Page 5
1		1	Lubin
2	STIPULATIONS	2	administer an oath. I am not related
3	IT IS HEREBY STIPULATED AND AGREED, by	3	to any party in this action, nor am I
4	and among counsel for the respective	4	financially interested in the outcome.
5	parties hereto, that the filing, sealing	_	a 1 '11' 1
	r	5	Counsel will now please state
6	and certification of the within	6	Counsel will now please state their appearances and affiliations for
6 7	-		their appearances and affiliations for the record.
_	and certification of the within	6 7 8	their appearances and affiliations for the record.  MR. DESAI: On behalf of
7	and certification of the within deposition shall be and the same are	6 7 8 9	their appearances and affiliations for the record.  MR. DESAI: On behalf of plaintiff Kewazinga Corp., this is
7 8	and certification of the within deposition shall be and the same are hereby waived;	6 7 8 9 10	their appearances and affiliations for the record.  MR. DESAI: On behalf of plaintiff Kewazinga Corp., this is Stroock Stroock & Lavan. And also on
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2 (Pages 2 - 5)

		Daga 46		Daga 49
1	Lubin	Page 46	1	Page 48 Lubin
2	MR. DESAI: Objection to the		2	A. No.
3	form.		3	Q. Do you have a postgraduate
4	A. I arrived at that by reviewing		4	degree in computer engineering?
5	some of the materials in the patents and		5	A. No.
6	understanding what kinds of techniques		6	Q. Do you have one to two years of
7	were being used there and relating it		7	experience in the field of computer
8	back to my education and my previous		8	vision?
9	experience.		9	A. Yes, at least.
10	Q. Did you meet your definition in		10	Q. Do you have one to two years of
11	1998?		11	experience in the field of image
12	A. Yes, I did.		12	processing?
13	Q. So you still meet your		13	A. Yes, at least.
14	definition today, is that right?		14	Q. So you don't have a computer
15	A. I hope so. Yes.		15	engineering degree, true?
16	Q. Do you have a bachelor's degree		16	A. That's true.
17	in computer science?		17	Q. I am going to introduce another
18	A. No, I don't.		18	exhibit on Exhibit Share.
19	Q. Do you have a bachelor's degree		19	(Exhibit 3, Dr. Keith Hannah's
20	in computer engineering?		20	original and supplemental declaration
21	A. I have a bachelor's degree in		21	submitted in connection with Microsoft
22	experimental psychology, which is, you		22	case, was so marked for
23	know, in this case pretty highly related		23	identification, as of this date.)
24	to the materials that we're talking		24	Q. I am introducing as Exhibit
25	about. So we can go down a list of all		25	number 3 Dr. Hannah's declaration in the
1	Luhin	Page 47	1	Page 49
1 2	Lubin the computer related fields that I do not	Page 47	1	Lubin
2	the computer related fields that I do not	Page 47	2	Lubin Microsoft litigation. Please let me know
2 3	the computer related fields that I do not have a bachelor's degree in and I will	Page 47	2 3	Lubin Microsoft litigation. Please let me know when you see it.
2 3 4	the computer related fields that I do not have a bachelor's degree in and I will respond appropriately to each one of	Page 47	2 3 4	Lubin Microsoft litigation. Please let me know when you see it. A. Okay.
2 3 4 5	the computer related fields that I do not have a bachelor's degree in and I will respond appropriately to each one of those.	Page 47	2 3 4 5	Lubin Microsoft litigation. Please let me know when you see it. A. Okay. Q. You reviewed Dr. Hannah's
2 3 4	the computer related fields that I do not have a bachelor's degree in and I will respond appropriately to each one of those.  Q. Is your bachelor's degree in	Page 47	2 3 4 5 6	Lubin Microsoft litigation. Please let me know when you see it. A. Okay. Q. You reviewed Dr. Hannah's declaration, which is Exhibit 3, for this
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2 3 4 5 6 7 8 9	the computer related fields that I do not have a bachelor's degree in and I will respond appropriately to each one of those.  Q. Is your bachelor's degree in experimental psychology equivalent to a computer science or a computer engineering degree?	Page 47	2 3 4 5 6 7 8 9	Lubin Microsoft litigation. Please let me know when you see it.  A. Okay. Q. You reviewed Dr. Hannah's declaration, which is Exhibit 3, for this case; is that right?  A. Yes, I did. Q. And you said you generally agree with his opinions in this
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	the computer related fields that I do not have a bachelor's degree in and I will respond appropriately to each one of those.  Q. Is your bachelor's degree in experimental psychology equivalent to a computer science or a computer engineering degree?  MR. DESAI: Objection to the form.  A. Equivalent in what way? What do you mean equivalent?  Q. I'll withdraw the question. Do you have three to five years of experience in the field of computer vision?  A. Yes, at least.  Q. Do you have three to five years of experience in the field of image processing?  A. Yes.	Page 47	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Lubin Microsoft litigation. Please let me know when you see it.  A. Okay. Q. You reviewed Dr. Hannah's declaration, which is Exhibit 3, for this case; is that right? A. Yes, I did. Q. And you said you generally agree with his opinions in this declaration? A. Yeah, generally speaking, yes. Q. Please turn to paragraph 23 of Exhibit 3. A. Okay. Q. Do you see it says that a person of ordinary skill in the art would have "a bachelor's degree in computer science, computer engineering or the equivalent, and three to five years of experience in the field of computer vision, image processing or a
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	D 40		
1	Page 50 Lubin	1	Page 5 Lubin
2	field of computer vision or image	2	MR. DESAI: Objection to form.
3	processing or equivalent experience."	$\frac{2}{3}$	A. I looked at it. I wouldn't say
4	A. Yes, I see that.	4	I reviewed it with the purpose of
5	Q. Your definition of a person of	5	modifying it. I looked at it and
6	ordinary skill in the art is different	6	understood it and I understand my own
7	from Dr. Hannah's; is that right?	7	construction which, again, is really
8	MR. DESAI: Objection to form.	8	just, I think, perhaps a different
9	A. No, I don't think it's	9	emphasis and a clarification of what he
10	different. You know, he's talking about	10	was talking about. So I don't see them
11	computer science, computer engineering or	11	as inconsistent.
12	the equivalent. And I'm expressing in my	12	Q. And you reviewed Dr. Hannah's
13	definition what some of those	13	definition of a person of ordinary skill
14	equivalences are.	14	in the art for the purpose of
15	Q. The words of your definition	15	understanding it, is that fair?
16	are different from the words of	16	MR. DESAI: Objection to the
17	Dr. Hannah's; is that fair?	17	form.
18	A. Some of them, yes. Many of	18	A. For the purpose of
19	them, yes.	19	understanding what he was saying. I did
20	Q. Dr. Hannah's definition	20	not rely on it in any way to formulate my
21	requires a degree in computer science,	21	own opinion.
22	computer engineering or the equivalent,	22	Q. Why did you change the
23	right?	23	definition of person of ordinary skill in
24	A. Yes. But what I am referring	24	the art from Dr. Hannah's definition?
25	to here is the equivalent. So if I can	25	MR. DESAI: Objection to form.
1	Page 51	1	Page 5
1	Lubin	1	Lubin
2	Lubin just unpack that for a moment, the work I	2	Lubin A. I assessed what I believed
2 3	Lubin just unpack that for a moment, the work I did in my bachelor's degree involved	2 3	Lubin A. I assessed what I believed would be required to understand and opine
2 3 4	Lubin just unpack that for a moment, the work I did in my bachelor's degree involved things that are often taken to be done in	2 3 4	Lubin A. I assessed what I believed would be required to understand and opine on his definition and I used my version
2 3 4 5	Lubin just unpack that for a moment, the work I did in my bachelor's degree involved things that are often taken to be done in computer science or computer engineering.	2 3 4 5	Lubin A. I assessed what I believed would be required to understand and opine on his definition and I used my version of what that meant.
2 3 4 5 6	Lubin just unpack that for a moment, the work I did in my bachelor's degree involved things that are often taken to be done in computer science or computer engineering. It was about understanding and modeling	2 3 4 5 6	Lubin A. I assessed what I believed would be required to understand and opine on his definition and I used my version of what that meant.  THE COURT REPORTER: Sorry,
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14 (Pages 50 - 53)

	Page 54		Page 56
1	Lubin	1	Lubin
2	science or computer engineering would be	2	cameras wherein the configuration can be
3	required to be a person of ordinary skill	3	created over time by moving cameras"; is
4	in the art in this case. And that's what	4	that right?
5	I attempted to do in my definition.	5	A. Yes.
6	Q. So you reviewed Dr. Hannah's	6	Q. And that opinion is set forth
7	definition and rephrased it in a way that	7	in your declaration at paragraph 47; is
8	you thought was more appropriate, true?	8	that right?
9	MR. DESAI: Objection to form.	9	A. Let's look.
10	A. I looked at it. I understood	10	Yes.
11	what he was talking about. I then went	11	Q. In paragraph 47 you note
12	off and decided what I believed was a	12	certain claims of the '226 patent and
13	person of ordinary skill in the art, and	13	certain claims of the '325 patent recite
14	I and that's what, that's what you see	14	array of cameras. Do you see that?
15	before you.	15	A. Yes.
16	Q. Okay. I will move on to the	16	Q. Did you also rely on the '234
17	more meaty discussion of the claim	17	patent or the '234 patent file history in
18	construction terms, if that's all right	18	developing your construction of the term
19	with you.	19	"array of cameras"?
20	A. That sounds fine.	20	MR. DESAI: Objection to form.
21	Q. In your opinion is the term	21	A. You know, these patents tend
22	"array of cameras" unambiguous?	22	to let me take a look at which is
23	MR. DESAI: Objection to form.	23	the '234 patent, which exhibit?
24	A. Let me look for a moment.	24	Q. The '234 patent is
25	(Witness reviews document.)	25	A. I see it, it's Exhibit C.
	Page 55		Page 57
1	Lubin	1	Lubin
2	Lubin A. Just to refresh my memory.	2	Lubin THE COURT REPORTER: Exhibit?
2 3	Lubin A. Just to refresh my memory. Maybe you can rephrase it. What do you	2 3	Lubin THE COURT REPORTER: Exhibit? MS. CHEN: C as in cat.
2 3 4	Lubin A. Just to refresh my memory. Maybe you can rephrase it. What do you mean by ambiguous here?	2 3 4	Lubin THE COURT REPORTER: Exhibit? MS. CHEN: C as in cat. A. Give me a moment, please.
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2 3 4 5 6	Lubin A. Just to refresh my memory. Maybe you can rephrase it. What do you mean by ambiguous here? Q. In your opinion, is the term "array of cameras" unclear?	2 3 4 5 6	Lubin THE COURT REPORTER: Exhibit? MS. CHEN: C as in cat. A. Give me a moment, please. Q. Sure. (Witness reviews document.)
2 3 4 5 6 7	Lubin A. Just to refresh my memory.  Maybe you can rephrase it. What do you mean by ambiguous here? Q. In your opinion, is the term "array of cameras" unclear?  MR. DESAI: Objection to form.	2 3 4 5 6 7	Lubin THE COURT REPORTER: Exhibit? MS. CHEN: C as in cat. A. Give me a moment, please. Q. Sure. (Witness reviews document.) A. Just repeat the question one
2 3 4 5 6 7 8	Lubin A. Just to refresh my memory. Maybe you can rephrase it. What do you mean by ambiguous here? Q. In your opinion, is the term "array of cameras" unclear? MR. DESAI: Objection to form. A. Can you try one other	2 3 4 5 6 7 8	Lubin THE COURT REPORTER: Exhibit? MS. CHEN: C as in cat. A. Give me a moment, please. Q. Sure. (Witness reviews document.) A. Just repeat the question one more time, please.
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15 (Pages 54 - 57)

	Page 174		Page 1	176
1	Lubin	1	Lubin	1,0
2	you know, be putting different arrays in	2	A. Well, it's not specified. And	
3	place and then you would, you realize	3	I don't think it has to be specified who	
4	that at some point you need the array,	4	decides.	
5	the next ring to be closer, and you would	5	So can you ask me the question	
6	put it there.	6	you're getting at someplace along the	
7	So, you know, as far as any	7	way, because I'm not sure that that one	
8	individual ring of or cylinder of cameras	8	is I am not understanding it.	
9	in this particular embodiment, how would	9	Q. Is there any way to know when	
10	you know I guess I forgot what your	10	an array is complete?	
11	question is, I'm sorry.	11	MR. DESAI: Objection to form.	
12	Q. How would you know that the	12	A. Well, there is lots of ways to	
13	cylinder is complete?	13	know. I think that's my point. It	
14	A. How would you know that you	14	depends on why you're constructing the	
15	have a single cylinder in place?	15	array in the first place and what the	
16	Q. No. A cylinder could be	16	environment is.	
17	composed strike that.	17	And, you know, one, if	
18	A cylinder array, as in claim	18	you've you know, there is certainly	
19	Figure 11, could be composed of any	19	rules of thumb for particular scenarios,	
20	number of cameras, right? There is no	20	but it differs a lot from one application	
21	limitation on how many cameras are	21	to the next.	
22	required to form the cylindrical array,	22	Q. In a situation where a camera	
23	right?	23	is moved over time, it's up to the camera	
24	MR. DESAI: Objection to form.	24	operator to determine when to stop and	
25	A. There is no a priori limit.	25	therefore create the array, right?	
	Page 175		Page 1	
1		1		177
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2	Lubin It's, you know, functionally, practically	2	Lubin MR. DESAI: Same objection.	177
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2 3 4	Lubin It's, you know, functionally, practically speaking, you would not want to use more cameras than you need.	2 3 4	Lubin MR. DESAI: Same objection. A. Same answer. You know, it depends. There is no difference, as I've	177
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45 (Pages 174 - 177)

	Page 178		Page 180
1	Lubin	1	Lubin
2	let me put another camera in there and	2	are, have a known relation to each other,
3	even by itself, have it, you know,	3	and, you know, that would be it.
4	re-traverse the path that it was supposed	4	Q. In your declaration, can you
5	to be on.	5	please turn to paragraph 48.
6	And that would count, too, as	6	A. Okay.
7	an element of that single array of	7	Q. You see paragraph 48 goes onto
8	cameras or, you know, of cameras being,	8	page 23, do you see that you cite the
9	of knowing when you had enough.	9	definition of "array" from Random House
10	I am just trying to give you	10	Webster's College Dictionary, 1991.
11	different examples that show that it's	11	A. Yes, I do.
12	not a question that you can ask	12	Q. Do you see that it says
13	generally I mean, that you can answer	13	strike that.
14	generally.	14	A. 1991.
15	Q. From a time perspective,	15	Q. Yes. 1991. Do you see that
16	whether you have an array of cameras	16	you opine your "construction is
17	depends on when the camera operator	17	consistent with the definition of 'array'
18	decides to stop moving the camera to	18	(i.e. 'regular order or arrangement')"?
19	different positions, right?	19	A. Yes.
20	MR. DESAI: Objection to form.	20	Q. What does it mean to have a
21	Asked and answered.	21	regular order or arrangement?
22 23	A. If you're not if you're not	22 23	MR. DESAI: Objection to form.  A. In this context it means that
24	creating any more positions for that one	24	
25	camera, then you're done.  Q. Is array of cameras one of	25	you can index your way through that array and, you know, find your way to different
23		23	· · · · · · · · · · · · · · · · · · ·
	Page 179		Daga 181
1		1	Page 181 Lubin
1 2	Lubin	1 2	Lubin
1 2 3	Lubin those things where it depends on the use	1 2 3	Lubin nodes of the array in a, you know,
2	Lubin	2	Lubin nodes of the array in a, you know, regular, fully specifiable process.
2 3	Lubin those things where it depends on the use and other factors, so you know it when	2 3	Lubin nodes of the array in a, you know,
2 3 4	Lubin those things where it depends on the use and other factors, so you know it when you see it?	2 3 4	Lubin nodes of the array in a, you know, regular, fully specifiable process. So, you know, just looking at
2 3 4 5	Lubin those things where it depends on the use and other factors, so you know it when you see it? MR. DESAI: Objection to the	2 3 4 5	Lubin nodes of the array in a, you know, regular, fully specifiable process. So, you know, just looking at array coordinates is the standard, most
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46 (Pages 178 - 181)

	Page 194		Page 196
1	Lubin	1	Lubin
2	tools that are used in mosaicing, but I,	2	Q. And do you also see about 10
3	you know, I didn't I never worked on	3	lines later in the same paragraph you
4	mosaicing myself.	4	say, "As of result, navigation through
5	Q. Are you familiar with Dr. Teddy	5	the array is not limited to one physical
6	Kumar?	6	camera, but rather includes navigation of
7	A. Yes, I am. He's my boss, my	7	camera outputs."
8	boss's boss.	8	Do you see that?
9	Q. Do you know if Dr. Kumar has	9	A. Yes.
10	worked on mosaicing?	10	Q. And do you see that the
11	A. I don't know for sure.	11	following sentence is a quote from the
12	Q. Do you know Dr. Burt?	12	'226 patent at column 4, lines 26 through
13	A. Yes, I do.	13	29, "The system allows the viewer to
14	Q. Do you know if Dr. Burt has	14	•
15	worked on mosaicing?	15	microcamera outputs in a way that (via
16	A. Well, I know of his patent in	16	electronic switching processes and thus
17	the area, so yes.	17	movement through the array) merges their
18	Q. Did you discuss Dr. Burt's	18	fields of view into a seamless motion
19	patent on mosaicing with him?	19	path."
20	A. No.	20	Do you see that?
21	Q. Have you discussed mosaicing	21	A. Yes, I do.
22	with Dr. Burt?	22	Q. So do you agree that the claim
23	A. No, I am pretty sure I didn't.	23	system allows the user to merge the
24	But I can't absolutely say that over the	24	fields of view of multiple microcamera
25	course of 30 years it didn't ever come up	25	outputs into a seamless motion path?
	Page 195		Page 197
1	Lubin	1	Lubin
2	Lubin in conversation. But I don't recall any	2	Lubin MR. DESAI: Objection to form.
	Lubin in conversation. But I don't recall any time that it did.		Lubin MR. DESAI: Objection to form. A. I agree that in many cases it
2 3 4	Lubin in conversation. But I don't recall any time that it did. Q. I would like to direct you	2 3 4	Lubin MR. DESAI: Objection to form. A. I agree that in many cases it is desirable to have well, let me say
2 3 4 5	Lubin in conversation. But I don't recall any time that it did. Q. I would like to direct you paragraph 23 of your report. Please let	2 3 4 5	Lubin MR. DESAI: Objection to form. A. I agree that in many cases it is desirable to have well, let me say one thing.
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50 (Pages 194 - 197)

	Page 198		Page 200
1	Lubin	1	Lubin
2	your opinion is different from the	2	seamlessness. In anything that's
3	seamlessness that's described in the Burt	3	consumed by the human visual system, it,
4	patent; is that fair?	4	you know, it's a relative thing.
5	A. It's different than some of the	5	Q. For the record, could you spell
6	descriptions in there, yes.	6	the name of your coauthor on that paper?
7	Q. How so?	7	A. Yeah, it's Gerald, G-E-R-A-L-D,
8	A. Well, as I've already said,	8	Alfonse, A-L-P-H-O-N-S-E.
9	the when you're trying to you know,	9	And maybe just to telegraph a
10	seamlessness is, since it's a perceptual	10	little bit, you know, there is certainly
11	issue, there is no absolute seamlessness,	11	no requirement for seamlessness at all in
12	and so it's really a question of, you	12	mosaicing, and in fact, in some
13	know, to what extent it is to interfere	13	applications you specifically do not want
14	with the task at end.	14	any kind of attempt to blur the seam.
15	And if the task at end is	15	For example, in the aerial
16	navigating through an environment, there	16	image, you know, analysis example that I
17	is different requirements. You do not	17	gave before the break, where these image
18	want to have things jump at one moment to	18	analysts are looking at satellite images
19	the next, perhaps. But, you know, it's,	19	and they are lined up so that they are
20	I would say, a less stringent requirement	20	more or less matching, they don't want
21	than seamlessness in images.	21	anything to be done to remove any
22	Q. So I can't recall the exact		information to obstruct or distort any
23	term, but is there a way to quantify a	23	information at all in these images, even
24	person's ability to perceive changes,	24	at what's not only on the edges between,
25	small changes?	25	between these different plates or what do
1	Page 199	1	Page 201
1	Lubin	1	Lubin
2	Lubin A. Yes, in fact a lot of my early	2	Lubin they call them, these images.
3	Lubin A. Yes, in fact a lot of my early work at Sarnoff was about that. One unit	2 3	Lubin they call them, these images. So, you know, in that case, and
2 3 4	Lubin A. Yes, in fact a lot of my early work at Sarnoff was about that. One unit is called the adjust noticeable	2 3 4	Lubin they call them, these images. So, you know, in that case, and also, you know, it helps you understand
2 3 4 5	Lubin A. Yes, in fact a lot of my early work at Sarnoff was about that. One unit is called the adjust noticeable difference.	2 3 4 5	Lubin they call them, these images. So, you know, in that case, and also, you know, it helps you understand where you are in the collection of images
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2 3 4 5 6 7	Lubin A. Yes, in fact a lot of my early work at Sarnoff was about that. One unit is called the adjust noticeable difference. And actually I did an analysis, I wrote a paper with another guy named	2 3 4 5	Lubin they call them, these images. So, you know, in that case, and also, you know, it helps you understand where you are in the collection of images for people to see some edges between them. You know, some see where one
2 3 4 5 6 7 8	Lubin A. Yes, in fact a lot of my early work at Sarnoff was about that. One unit is called the adjust noticeable difference. And actually I did an analysis, I wrote a paper with another guy named Gerry Alphonse, I don't know if I	2 3 4 5 6 7 8	Lubin they call them, these images. So, you know, in that case, and also, you know, it helps you understand where you are in the collection of images for people to see some edges between them. You know, some see where one starts and the other ends. And so that
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51 (Pages 198 - 201)

	D 007		D 400
1	Page 206 Lubin	1	Page 208 Lubin
2	the seams, and to that extent, it's not	2	MR. DESAI: Same objection.
3	needed.	3	A. I would say that certainly it
4	I not saying that you don't	4	is a way to try to achieve seamlessness.
5	want to do image processing for other	5	I think there are other reasons
6	reasons, but to answer the question about	6	to do that kind of processing, perhaps;
7	seamlessness, I opine and firmly believe	7	none that come to mind. But, you know,
8	that it's not required.	8	at the moment, I believe that's how he
9	Q. In Burt, your opinion is that	9	intended the meaning of those terms.
10	seam reduction imaging processing is	10	Can't be absolutely sure.
11	optional and not required; is that fair?	11	Q. And the Burt patent was
12	MR. DESAI: Objection to form.	12	incorporated by reference into the
13	A. Yes.	13	Kewazinga patent, right?
14	Q. In Burt, if there is seam	14	A. Yes.
15	reduction image processing, that would	15	Q. Earlier I believe you testified
16	take place during the composition	16	that you view there to be a distinction
17	process; is that right?	17	between a seamless motion path and a
18	MR. DESAI: Same objection.	18	seamless mosaic, right?
19	A. Let me just check, okay? Which	19	A. Yes, I said in general, from a
20	exhibit is the Burt patent?	20	perceptual perspective, that there are
21	Q. It's Exhibit F.	21	different desiderata in those two cases.
22	A. F, thank you.	22	Q. Can you repeat that?
23	Q. And for the record, I am	23	A. I don't know why I always use
24	referring to the Burt patent, which is	24 25	that word, desiderata, things that are to be that are desired.
25	Exhibit F to Dr. Lubin's declaration, and	23	
	Page 207		Daga 200
1		1	Page 209
1 2	Lubin	1 2	Lubin
2	Lubin the patent number is U.S. patent number	2	Lubin D-E-S-I-D-E-R-A-T-A. I'm sorry.
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	Lubin the patent number is U.S. patent number 5,649,032.  A. Yeah, in enclosing the mosaic, looking at column four, starting line 41, "On the aligned images the system may use any one of a number of image fusing, merging, filtering and averaging processes to best produce a seamless mosaic."  So if it were being done, it would be done in the composition process. Q. The process of producing a seamless mosaic, if it is done, is that achieved by any one of these identified processes, image fusing, merging, filtering and averaging?  MR. DESAI: Objection to form. A. Is it is it Q. I'll withdraw the question. Let me restate it. Is the purpose of image fusing,	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Lubin D-E-S-I-D-E-R-A-T-A. I'm sorry. Q. No problem. In the context of the patents in suit, is there a conflict between the meaning of seamless motion path and seamless mosaic as used in the Burt patent?  MR. DESAI: Objection to form. A. There is no conflict. There are different applications, different perceptual things you're trying to accomplish in the two cases.  So in general when you're trying to have a seamless motion path, as I said earlier, that means, you know, that's, generally speaking, a less stringent requirement than trying to achieve seamlessness on an image when you're looking at it directly. You know, when you're traversing an environment, mostly things are going by on the sides. And unless there is a big abrupt change

53 (Pages 206 - 209)

	Page 210		Page 212
1	Lubin	1	Lubin
2	a less stringent requirement.	2	reads, "U.S. patent number 5,649,032,
3	Q. In the context of the Kewazinga	3	which is the Burt patent, discloses a
4	patent	4	system and method for generating a mosaic
5	A. One other thing that I would	5	from a plurality of images and is hereby
6	like to add to that, is that requirement	6	incorporated by reference"?
7	for seamless motion generally can be	7	A. Yes, I do.
8	accomplished just by the alignment	8	Q. So the Kewazinga patents,
9	process in my experience. So there is no	9	including this '234 patent that we are
10	need to, there is no reason to do any	10	looking at now, are an improvement over
11	further processing. The alignment	11	Burt, right?
12	process and just composing things as is,	12	MR. DESAI: Objection to form.
13	by itself, reduces or removes any effects	13	A. You know, any patent is an
14	of abrupt transitions between images for	14	improvement over any other patent because
15	the purpose of motion.	15	it adds more inventions to the world.
16	Q. Is it your understanding that	16	I think that the fact that, you
17	the Kewazinga patent cites the Burt	17	know, that it cites it incorporates this
18	patent to explain how the images are	18	does not make it an improvement. It puts
19	mosaic in order to achieve a seamless	19	it off into a different direction, I
20	motion path?	20	guess. But it's not really my place to,
21	MR. DESAI: Objection to form.	21	you know, say whether it's an improvement
22	A. There was a lot of clauses in	22	or not, would probably be the best
23	there.	23	answer.
24	Q. I'll restate the question.	24	Q. I'll rephrase it.
25	Why does the Kewazinga	25	Would you say the Kewazinga
1	Page 211	1	Page 213
1	Lubin	1	Lubin
2	Lubin strike that.	2	Lubin patents build on what is disclosed in
2 3	Lubin strike that. Why does the Kewazinga patent	2 3	Lubin patents build on what is disclosed in Burt?
2 3 4	Lubin strike that. Why does the Kewazinga patent cite Burt?	2 3 4	Lubin patents build on what is disclosed in Burt? MR. DESAI: Objection to form.
2 3 4 5	Lubin strike that. Why does the Kewazinga patent cite Burt? MR. DESAI: Objection to form.	2 3 4 5	Lubin patents build on what is disclosed in Burt? MR. DESAI: Objection to form. A. I mean, the Kewazinga patents
2 3 4 5 6	Lubin strike that. Why does the Kewazinga patent cite Burt? MR. DESAI: Objection to form. Foundation.	2 3 4 5 6	Lubin patents build on what is disclosed in Burt?  MR. DESAI: Objection to form. A. I mean, the Kewazinga patents use something about the Burt patent to
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Lubin strike that.  Why does the Kewazinga patent cite Burt?  MR. DESAI: Objection to form. Foundation.  A. I wasn't really asked to delve into that. You know, I probably could come up with an opinion of why they cited it, but I didn't consider it and I don't feel comfortable trying to consider it right this second.  Q. In the '234 patent, please turn to column 17.  A. What is that?  Q. That is Exhibit C to your declaration.  A. '234 patent, where?  Q. Column 17. Do you agree that the '234 patent at column 17, line 30,	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Lubin patents build on what is disclosed in Burt?  MR. DESAI: Objection to form.  A. I mean, the Kewazinga patents use something about the Burt patent to solve a particular problem that they are addressing, navigating when you're not going directly from one camera output to the next.  So that's how I would that's how I would describe what they are doing with the Burt patent and, I guess to answer your previous question, why they are doing it.  Q. So you agree that the Kewazinga patents used the mosaicing that is described in the Burt patent as an example of how mixing is accomplished in the Kewazinga patent; is that fair to
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Lubin strike that.  Why does the Kewazinga patent cite Burt?  MR. DESAI: Objection to form. Foundation.  A. I wasn't really asked to delve into that. You know, I probably could come up with an opinion of why they cited it, but I didn't consider it and I don't feel comfortable trying to consider it right this second.  Q. In the '234 patent, please turn to column 17.  A. What is that?  Q. That is Exhibit C to your declaration.  A. '234 patent, where?  Q. Column 17. Do you agree that the '234 patent at column 17, line 30, reads, "In another embodiment, mixing may	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	Lubin patents build on what is disclosed in Burt?  MR. DESAI: Objection to form.  A. I mean, the Kewazinga patents use something about the Burt patent to solve a particular problem that they are addressing, navigating when you're not going directly from one camera output to the next.  So that's how I would that's how I would describe what they are doing with the Burt patent and, I guess to answer your previous question, why they are doing it.  Q. So you agree that the Kewazinga patents used the mosaicing that is described in the Burt patent as an example of how mixing is accomplished in the Kewazinga patent; is that fair to say?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Lubin strike that. Why does the Kewazinga patent cite Burt? MR. DESAI: Objection to form. Foundation. A. I wasn't really asked to delve into that. You know, I probably could come up with an opinion of why they cited it, but I didn't consider it and I don't feel comfortable trying to consider it right this second. Q. In the '234 patent, please turn to column 17. A. What is that? Q. That is Exhibit C to your declaration. A. '234 patent, where? Q. Column 17. Do you agree that the '234 patent at column 17, line 30, reads, "In another embodiment, mixing may be accomplished by 'mosaicing' the	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Lubin patents build on what is disclosed in Burt?  MR. DESAI: Objection to form.  A. I mean, the Kewazinga patents use something about the Burt patent to solve a particular problem that they are addressing, navigating when you're not going directly from one camera output to the next.  So that's how I would that's how I would describe what they are doing with the Burt patent and, I guess to answer your previous question, why they are doing it.  Q. So you agree that the Kewazinga patents used the mosaicing that is described in the Burt patent as an example of how mixing is accomplished in the Kewazinga patent; is that fair to say?  MR. DESAI: Objection to form.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Lubin strike that.  Why does the Kewazinga patent cite Burt?  MR. DESAI: Objection to form. Foundation.  A. I wasn't really asked to delve into that. You know, I probably could come up with an opinion of why they cited it, but I didn't consider it and I don't feel comfortable trying to consider it right this second.  Q. In the '234 patent, please turn to column 17.  A. What is that?  Q. That is Exhibit C to your declaration.  A. '234 patent, where?  Q. Column 17. Do you agree that the '234 patent at column 17, line 30, reads, "In another embodiment, mixing may	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Lubin patents build on what is disclosed in Burt?  MR. DESAI: Objection to form.  A. I mean, the Kewazinga patents use something about the Burt patent to solve a particular problem that they are addressing, navigating when you're not going directly from one camera output to the next.  So that's how I would that's how I would describe what they are doing with the Burt patent and, I guess to answer your previous question, why they are doing it.  Q. So you agree that the Kewazinga patents used the mosaicing that is described in the Burt patent as an example of how mixing is accomplished in the Kewazinga patent; is that fair to say?  MR. DESAI: Objection to form. Mischaracterizes the testimony.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Lubin strike that.  Why does the Kewazinga patent cite Burt?  MR. DESAI: Objection to form. Foundation.  A. I wasn't really asked to delve into that. You know, I probably could come up with an opinion of why they cited it, but I didn't consider it and I don't feel comfortable trying to consider it right this second.  Q. In the '234 patent, please turn to column 17.  A. What is that?  Q. That is Exhibit C to your declaration.  A. '234 patent, where?  Q. Column 17. Do you agree that the '234 patent at column 17, line 30, reads, "In another embodiment, mixing may be accomplished by 'mosaicing' the outputs of the intermediate cameras"?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Lubin patents build on what is disclosed in Burt?  MR. DESAI: Objection to form.  A. I mean, the Kewazinga patents use something about the Burt patent to solve a particular problem that they are addressing, navigating when you're not going directly from one camera output to the next.  So that's how I would that's how I would describe what they are doing with the Burt patent and, I guess to answer your previous question, why they are doing it.  Q. So you agree that the Kewazinga patents used the mosaicing that is described in the Burt patent as an example of how mixing is accomplished in the Kewazinga patent; is that fair to say?  MR. DESAI: Objection to form.

54 (Pages 210 - 213)

	Page 254		Page 256
1	Lubin	1	Lubin
2	BY MR. DESAI:	2	MS. CHEN: Objection to form.
3	Q. I think you're already looking	3	A. It showed me that my that my
4	at your declaration. Earlier today	4	claim constructions that I came up with
5	counsel asked you a number of questions	5	were consistent with what I was reading
6	about this declaration and expert report	6	in the patents.
7	and the analysis that you did in this	7	Q. Had you finalized your claim
8	case; do you remember testifying about	8	construction analysis before you reviewed
9	that?	9	the Kewazinga patents?
10	A. Yeah.	10	A. No.
11	Q. I would like to ask you just a	11	Q. Had you finalized your claim
12	few more questions about the analysis	12	construction opinions before reviewing
13	that you did in this case.	13	the Kewazinga patents?
14	If you can take a look at	14	MS. CHEN: Objection, form.
15	paragraph 1 of your declaration. You see	15	Q. I think your answer got cut
16	that?	16	off. I will ask the question again.
17	A. Yes.	17	Had you finalized your claim
18		18	construction opinions in this case before
19	Q. You see the second sentence, "I was asked to investigate and provide my	19	reviewing the Kewazinga patents?
20	• • •	20	A. No.
	opinions regarding the interpretation of	21	
21	certain language in the claims of	l	MS. CHEN: Objection, form.
22	Kewazinga's United States patents	22	Q. Can you turn to paragraph 10 of
23	6,535,226, 6,522,325 and 9,055,234"; do	23 24	your declaration.
24 25	you see that? A. Yes.	25	<ul><li>A. Okay.</li><li>Q. You see that the first sentence</li></ul>
23	A. 165.	23	Q. I ou see that the first sentence
1			
1	Page 255	1	Page 257
1 2	Lubin	1 2	Lubin
2	Lubin Q. Were you asked to investigate,	2	Lubin says, "I considered the following
2 3	Lubin Q. Were you asked to investigate, analyze and provide opinions on claim	2 3	Lubin says, "I considered the following materials, facts and data in forming my
2 3 4	Lubin Q. Were you asked to investigate, analyze and provide opinions on claim construction at this point in the case?	2 3 4	Lubin says, "I considered the following materials, facts and data in forming my opinions in this action," and then there
2 3 4 5	Lubin Q. Were you asked to investigate, analyze and provide opinions on claim construction at this point in the case? A. Just the meaning of those two	2 3 4 5	Lubin says, "I considered the following materials, facts and data in forming my opinions in this action," and then there is four bullet points underneath that.
2 3 4 5 6	Lubin Q. Were you asked to investigate, analyze and provide opinions on claim construction at this point in the case? A. Just the meaning of those two terms, "array of cameras" and	2 3 4 5 6	Lubin says, "I considered the following materials, facts and data in forming my opinions in this action," and then there is four bullet points underneath that.  Do you see that in paragraph 10?
2 3 4 5 6 7	Lubin Q. Were you asked to investigate, analyze and provide opinions on claim construction at this point in the case? A. Just the meaning of those two terms, "array of cameras" and "mosaicing."	2 3 4 5 6 7	Lubin says, "I considered the following materials, facts and data in forming my opinions in this action," and then there is four bullet points underneath that. Do you see that in paragraph 10? A. Yes.
2 3 4 5 6 7 8	Lubin Q. Were you asked to investigate, analyze and provide opinions on claim construction at this point in the case? A. Just the meaning of those two terms, "array of cameras" and "mosaicing." Q. Can you explain a little about	2 3 4 5 6 7 8	Lubin says, "I considered the following materials, facts and data in forming my opinions in this action," and then there is four bullet points underneath that. Do you see that in paragraph 10? A. Yes. Q. Had you finalized your claim
2 3 4 5 6 7 8 9	Lubin Q. Were you asked to investigate, analyze and provide opinions on claim construction at this point in the case? A. Just the meaning of those two terms, "array of cameras" and "mosaicing." Q. Can you explain a little about the analysis you did to come to your	2 3 4 5 6 7 8 9	Lubin says, "I considered the following materials, facts and data in forming my opinions in this action," and then there is four bullet points underneath that. Do you see that in paragraph 10? A. Yes. Q. Had you finalized your claim construction analysis prior to reviewing
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Lubin Q. Were you asked to investigate, analyze and provide opinions on claim construction at this point in the case? A. Just the meaning of those two terms, "array of cameras" and "mosaicing." Q. Can you explain a little about the analysis you did to come to your opinions on what you believe is the proper claim construction for mosaicing and array of cameras?  MS. CHEN: Objection to form. A. In both cases I started with the common usage of those terms and formed it from what I understood from my work in the field, and then went into the patents themselves and decided whether or not those were consistent with what I found in the patents. Q. You said based on your review	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Lubin says, "I considered the following materials, facts and data in forming my opinions in this action," and then there is four bullet points underneath that. Do you see that in paragraph 10?  A. Yes. Q. Had you finalized your claim construction analysis prior to reviewing the materials you considered in forming your opinions?  MS. CHEN: Objection, form.  A. No, I did not. Q. And was reviewing the materials that you identified here in paragraph 10 part of your analysis to provide the opinions on claim construction that you provided in this case?  A. Yes. Q. And you have provided those claim construction opinions in this case
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Lubin Q. Were you asked to investigate, analyze and provide opinions on claim construction at this point in the case? A. Just the meaning of those two terms, "array of cameras" and "mosaicing." Q. Can you explain a little about the analysis you did to come to your opinions on what you believe is the proper claim construction for mosaicing and array of cameras? MS. CHEN: Objection to form. A. In both cases I started with the common usage of those terms and formed it from what I understood from my work in the field, and then went into the patents themselves and decided whether or not those were consistent with what I found in the patents. Q. You said based on your review of the patents, I believe that you stated	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Lubin says, "I considered the following materials, facts and data in forming my opinions in this action," and then there is four bullet points underneath that. Do you see that in paragraph 10?  A. Yes.  Q. Had you finalized your claim construction analysis prior to reviewing the materials you considered in forming your opinions?  MS. CHEN: Objection, form.  A. No, I did not.  Q. And was reviewing the materials that you identified here in paragraph 10 part of your analysis to provide the opinions on claim construction that you provided in this case?  A. Yes.  Q. And you have provided those claim construction opinions in this case in this expert report and declaration
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Lubin Q. Were you asked to investigate, analyze and provide opinions on claim construction at this point in the case? A. Just the meaning of those two terms, "array of cameras" and "mosaicing." Q. Can you explain a little about the analysis you did to come to your opinions on what you believe is the proper claim construction for mosaicing and array of cameras? MS. CHEN: Objection to form. A. In both cases I started with the common usage of those terms and formed it from what I understood from my work in the field, and then went into the patents themselves and decided whether or not those were consistent with what I found in the patents. Q. You said based on your review of the patents, I believe that you stated was part of your analysis; what did you	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Lubin says, "I considered the following materials, facts and data in forming my opinions in this action," and then there is four bullet points underneath that. Do you see that in paragraph 10?  A. Yes.  Q. Had you finalized your claim construction analysis prior to reviewing the materials you considered in forming your opinions?  MS. CHEN: Objection, form.  A. No, I did not.  Q. And was reviewing the materials that you identified here in paragraph 10 part of your analysis to provide the opinions on claim construction that you provided in this case?  A. Yes.  Q. And you have provided those claim construction opinions in this case in this expert report and declaration that is Exhibit 1 at your deposition,
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Lubin Q. Were you asked to investigate, analyze and provide opinions on claim construction at this point in the case? A. Just the meaning of those two terms, "array of cameras" and "mosaicing." Q. Can you explain a little about the analysis you did to come to your opinions on what you believe is the proper claim construction for mosaicing and array of cameras? MS. CHEN: Objection to form. A. In both cases I started with the common usage of those terms and formed it from what I understood from my work in the field, and then went into the patents themselves and decided whether or not those were consistent with what I found in the patents. Q. You said based on your review of the patents, I believe that you stated	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Lubin says, "I considered the following materials, facts and data in forming my opinions in this action," and then there is four bullet points underneath that. Do you see that in paragraph 10?  A. Yes.  Q. Had you finalized your claim construction analysis prior to reviewing the materials you considered in forming your opinions?  MS. CHEN: Objection, form.  A. No, I did not.  Q. And was reviewing the materials that you identified here in paragraph 10 part of your analysis to provide the opinions on claim construction that you provided in this case?  A. Yes.  Q. And you have provided those claim construction opinions in this case in this expert report and declaration

65 (Pages 254 - 257)

1	Page 258		Page 260
1	Lubin	1	Lubin
2	A. Correct.	2	Q. Kewazinga's counsel asked you
3	Q. Do you still agree with the	3	questions about your process in forming
4	statements that you made in the expert	4	opinions in this case, right?
5	report and declaration that is Exhibit 1	5	A. Yes.
6	to your deposition?	6	Q. When you were first asked to
7	MS. CHEN: Objection. Form.	7	provide your opinions in this case, were
8	A. The statement in paragraph 1	8	you provided Kewazinga's proposed
9	you said?	9	construction?
10	Q. Let me clarify.	10	MR. DESAI: Objection to form.
11	I am asking you, do you agree	11	Again, you can answer the
12	with the statements that you made in this	12	question at a high level, but the
13	entirety of your expert report and	13	question appears to be about
14	declaration, which I am identifying as	14	conversations with counsel. So I
15	Exhibit 1 to your deposition?	15	advise you not to reveal the substance
16	A. Oh, yes.	16	of any conversations with counsel.
17	MS. CHEN: Objection, form.	17	A. Well, I'm not sure how to
18	Q. Do you believe that your review	18	answer it then.
19	of the relevant intrinsic and extrinsic	19	I was they presented me with
20	evidence that you reviewed in forming	20	the, I believe the Microsoft claim
21	your opinions continue to support the	21	construction opinions. The Microsoft
22	opinions that you provided in your expert	22	claim constructions. I don't recall
23	report and declaration that is Exhibit 1	23	whether or not they presented me with any
24	to your deposition?	24	draft claim constructions in this case
25	MS. CHEN: Objection, form.	25	before they before I started looking
	Page 259		Page 26
1	Lubin	1	Lubin
2	A. Yes, I do.	2	into it.
3	MR. DESAI: I pass the witness,	3	Q. You considered Kewazinga's
4	I have no further questions of the	4	proposed constructions of the claim terms
5	witness.	5	in this case before you finalized
6			
	BY MS. CHEN:	6	opinions, right?
7		6 7	opinions, right?
7 8	Q. Dr. Lubin, I just have a couple	l .	•
		7	opinions, right?  MR. DESAI: Objection to form.
8	Q. Dr. Lubin, I just have a couple more questions for you.	7 8	opinions, right?  MR. DESAI: Objection to form.  A. I believe I did. I believe
8 9	Q. Dr. Lubin, I just have a couple more questions for you. Earlier I asked you questions	7 8 9	opinions, right?  MR. DESAI: Objection to form.  A. I believe I did. I believe there was I saw something along those
8 9 10	Q. Dr. Lubin, I just have a couple more questions for you.  Earlier I asked you questions about your process in forming your	7 8 9 10	opinions, right?  MR. DESAI: Objection to form.  A. I believe I did. I believe there was I saw something along those lines.
8 9 10 11	Q. Dr. Lubin, I just have a couple more questions for you.  Earlier I asked you questions about your process in forming your opinions. Do you recall those questions?	7 8 9 10 11	opinions, right?  MR. DESAI: Objection to form.  A. I believe I did. I believe there was I saw something along those lines.  Whether or not I saw those
8 9 10 11 12	Q. Dr. Lubin, I just have a couple more questions for you.  Earlier I asked you questions about your process in forming your opinions. Do you recall those questions?  A. Yes, I do.	7 8 9 10 11 12	opinions, right?  MR. DESAI: Objection to form.  A. I believe I did. I believe there was I saw something along those lines.  Whether or not I saw those before I started reviewing other
8 9 10 11 12 13	Q. Dr. Lubin, I just have a couple more questions for you.  Earlier I asked you questions about your process in forming your opinions. Do you recall those questions?  A. Yes, I do.  Q. When were you first asked	7 8 9 10 11 12 13	opinions, right?  MR. DESAI: Objection to form.  A. I believe I did. I believe there was I saw something along those lines.  Whether or not I saw those before I started reviewing other documents, I'm not sure.
8 9 10 11 12 13 14	Q. Dr. Lubin, I just have a couple more questions for you.  Earlier I asked you questions about your process in forming your opinions. Do you recall those questions?  A. Yes, I do.  Q. When were you first asked strike that.	7 8 9 10 11 12 13 14	opinions, right?  MR. DESAI: Objection to form.  A. I believe I did. I believe there was I saw something along those lines.  Whether or not I saw those before I started reviewing other documents, I'm not sure.  Q. You considered as you
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8 9 10 11 12 13 14 15 16	Q. Dr. Lubin, I just have a couple more questions for you.  Earlier I asked you questions about your process in forming your opinions. Do you recall those questions?  A. Yes, I do.  Q. When were you first asked strike that.  When you were first asked to provide opinions in this case, were you	7 8 9 10 11 12 13 14 15 16	opinions, right?  MR. DESAI: Objection to form.  A. I believe I did. I believe there was I saw something along those lines.  Whether or not I saw those before I started reviewing other documents, I'm not sure.  Q. You considered as you indicated in paragraph 10 of your declaration, you considered the joint
8 9 10 11 12 13 14 15 16 17	Q. Dr. Lubin, I just have a couple more questions for you.  Earlier I asked you questions about your process in forming your opinions. Do you recall those questions?  A. Yes, I do.  Q. When were you first asked strike that.  When you were first asked to provide opinions in this case, were you provided Kewazinga's proposed construction?	7 8 9 10 11 12 13 14 15 16 17	opinions, right?  MR. DESAI: Objection to form.  A. I believe I did. I believe there was I saw something along those lines.  Whether or not I saw those before I started reviewing other documents, I'm not sure.  Q. You considered as you indicated in paragraph 10 of your declaration, you considered the joint claim construction and prehearing
8 9 10 11 12 13 14 15 16 17 18	Q. Dr. Lubin, I just have a couple more questions for you. Earlier I asked you questions about your process in forming your opinions. Do you recall those questions? A. Yes, I do. Q. When were you first asked strike that. When you were first asked to provide opinions in this case, were you provided Kewazinga's proposed construction? MR. DESAI: Objection to form	7 8 9 10 11 12 13 14 15 16 17 18	opinions, right?  MR. DESAI: Objection to form.  A. I believe I did. I believe there was I saw something along those lines.  Whether or not I saw those before I started reviewing other documents, I'm not sure.  Q. You considered as you indicated in paragraph 10 of your declaration, you considered the joint claim construction and prehearing statement, which is attached as Exhibit E to your declaration, which includes
8 9 10 11 12 13 14 15 16 17 18	Q. Dr. Lubin, I just have a couple more questions for you. Earlier I asked you questions about your process in forming your opinions. Do you recall those questions? A. Yes, I do. Q. When were you first askedstrike that. When you were first asked to provide opinions in this case, were you provided Kewazinga's proposed construction? MR. DESAI: Objection to form and outside the scope of the redirect.	7 8 9 10 11 12 13 14 15 16 17 18	opinions, right?  MR. DESAI: Objection to form.  A. I believe I did. I believe there was I saw something along those lines.  Whether or not I saw those before I started reviewing other documents, I'm not sure.  Q. You considered as you indicated in paragraph 10 of your declaration, you considered the joint claim construction and prehearing statement, which is attached as Exhibit E to your declaration, which includes Kewazinga's proposed construction, in
8 9 10 11 12 13 14 15 16 17 18 19 20	Q. Dr. Lubin, I just have a couple more questions for you. Earlier I asked you questions about your process in forming your opinions. Do you recall those questions? A. Yes, I do. Q. When were you first askedstrike that. When you were first asked to provide opinions in this case, were you provided Kewazinga's proposed construction? MR. DESAI: Objection to form and outside the scope of the redirect. You can answer the question at a	7 8 9 10 11 12 13 14 15 16 17 18 19 20	opinions, right?  MR. DESAI: Objection to form.  A. I believe I did. I believe there was I saw something along those lines.  Whether or not I saw those before I started reviewing other documents, I'm not sure.  Q. You considered as you indicated in paragraph 10 of your declaration, you considered the joint claim construction and prehearing statement, which is attached as Exhibit E to your declaration, which includes Kewazinga's proposed construction, in forming your opinions; is that right?
8 9 10 11 12 13 14 15 16 17 18 19 20 21	Q. Dr. Lubin, I just have a couple more questions for you.  Earlier I asked you questions about your process in forming your opinions. Do you recall those questions?  A. Yes, I do. Q. When were you first asked strike that.  When you were first asked to provide opinions in this case, were you provided Kewazinga's proposed construction?  MR. DESAI: Objection to form and outside the scope of the redirect.  You can answer the question at a high level, but don't reveal the	7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	opinions, right?  MR. DESAI: Objection to form.  A. I believe I did. I believe there was I saw something along those lines.  Whether or not I saw those before I started reviewing other documents, I'm not sure.  Q. You considered as you indicated in paragraph 10 of your declaration, you considered the joint claim construction and prehearing statement, which is attached as Exhibit E to your declaration, which includes Kewazinga's proposed construction, in forming your opinions; is that right?  A. Yes. Yes. That's right.
8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. Dr. Lubin, I just have a couple more questions for you. Earlier I asked you questions about your process in forming your opinions. Do you recall those questions? A. Yes, I do. Q. When were you first askedstrike that. When you were first asked to provide opinions in this case, were you provided Kewazinga's proposed construction? MR. DESAI: Objection to form and outside the scope of the redirect. You can answer the question at a	7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	opinions, right?  MR. DESAI: Objection to form.  A. I believe I did. I believe there was I saw something along those lines.  Whether or not I saw those before I started reviewing other documents, I'm not sure.  Q. You considered as you indicated in paragraph 10 of your declaration, you considered the joint claim construction and prehearing statement, which is attached as Exhibit E to your declaration, which includes Kewazinga's proposed construction, in forming your opinions; is that right?  A. Yes. Yes. That's right.

66 (Pages 258 - 261)

1 Lubin 2 MR. DESAI: Object to the form. 3 A. Yes. Yes, I did. 4 MS. CHEN: Thank you, I pass the 5 witness. 6 MR. DESAI: A few questions. 7 BY MR. DESAI: 8 Q. There seems to be a lot of 9 confusion here about the timing of your  1 Lubin 2 cameras" as used in the Kewazinga patents? 4 MS. CHEN: Objection to for is a configuration of cameras where configuration can be created over the moving cameras. 9 Q. Did you do an analysis	Page 264
3 A. Yes. Yes, I did. 4 MS. CHEN: Thank you, I pass the 5 witness. 6 MR. DESAI: A few questions. 7 BY MR. DESAI: 8 Q. There seems to be a lot of 3 patents? 4 MS. CHEN: Objection to for 5 A. As I state in paragraph 47, 6 is a configuration of cameras wher 7 configuration can be created over to 8 moving cameras.	a
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7 BY MR. DESAI: 8 Q. There seems to be a lot of 7 configuration can be created over t 8 moving cameras.	
8 Q. There seems to be a lot of 8 moving cameras.	
9 confusion here about the timing of your 9 Q. Did you do an analysis	,
10 opinion. Let's just make this simple. 10 including reviewing the Kewazing	a patents
Can you turn to paragraph 41 of 11 in coming to that opinion?	•
12 your declaration 38 of your 12 A. Yes.	
13 declaration. Do you see it states there, 13 MS. CHEN: Objection, form	n.
14 "A POSITA understands that this term" 14 Q. And do you still believe that	
15 strike that. 15 in your expert opinion, that that is	
Just read that paragraph to 16 appropriate construction of "array of the second of the	
17 yourself. 17 cameras" in this case?	
18 A. Okay. 18 MS. CHEN: Objection, form	n.
19 (Witness reviews document.) 19 A. Yes.	
20 Q. What is your opinion on the 20 MR. DESAI: I pass the witr	ness.
21 proper construction for the claim term 21 MS. CHEN: Dr. Lubin, than	
22 "mosaicing"? 22 again for your time. I have no	
23 MS. CHEN: Objection, form. 23 further questions.	
24 A. My opinion is, as I state here, 24 THE WITNESS: Thank you	u.
25 that the term refers to "creating imagery 25 THE VIDEOGRAPHER: T	
Page 263	Page 265
1 Lubin 1 Lubin	
2 assembled from a plurality of images, or 2 concludes today's testimony of	
3 portions thereof, including an alignment 3 Dr. Jeffrey Lubin. We are going	
4 process and a composition process." 4 the record at 6:33 p.m. This also	o
5 Q. Did you perform an analysis or 5 concludes media 6.	
6 view any materials in coming to that 6 (Time noted: 6:33 p.m.)	
7 opinion?	
8 MS. CHEN: Objection to form. 8	
9 A. Yes. 9 Subscribed and sworn to	
10 Q. Did that include reviewing the 10 before me thisday of,	2020.
11 Kewazinga patents?	
12 A Vos	
12 A. Yes. 12	
12 A. Yes. 13 Q. Do you still agree do you 12	
13 Q. Do you still agree do you 14 still believe that, in your expert 13 14	
13 Q. Do you still agree do you 14 still believe that, in your expert 15 opinion, that is the proper construction 11 12 13 14 15	I
13 Q. Do you still agree do you 14 still believe that, in your expert 15 opinion, that is the proper construction 16 of mosaicing as used in the Kewazinga 11 12 13 14 15 16	
13 Q. Do you still agree do you 14 still believe that, in your expert 15 opinion, that is the proper construction 16 of mosaicing as used in the Kewazinga 17 patents? 18 19 10 11 11 11 12 13 14 15 16 17	
13 Q. Do you still agree do you 14 still believe that, in your expert 15 opinion, that is the proper construction 16 of mosaicing as used in the Kewazinga 17 patents? 18 MS. CHEN: Objection, form.	
13 Q. Do you still agree do you 14 still believe that, in your expert 15 opinion, that is the proper construction 16 of mosaicing as used in the Kewazinga 17 patents? 18 MS. CHEN: Objection, form. 18 19 A. Yes.	
13 Q. Do you still agree do you 14 still believe that, in your expert 15 opinion, that is the proper construction 16 of mosaicing as used in the Kewazinga 17 patents? 18 MS. CHEN: Objection, form. 19 A. Yes. 20 Q. Can you turn now to paragraph 11 14 15 16 17 18 18 19 19 19 19 19 19 19 19 19 19 19 19 19	
13 Q. Do you still agree do you 14 still believe that, in your expert 15 opinion, that is the proper construction 16 of mosaicing as used in the Kewazinga 17 patents? 18 MS. CHEN: Objection, form. 18 19 A. Yes. 19 20 Q. Can you turn now to paragraph 20 21 47 of your declaration. Take a moment to 21	
13 Q. Do you still agree do you 14 still believe that, in your expert 15 opinion, that is the proper construction 16 of mosaicing as used in the Kewazinga 17 patents? 18 MS. CHEN: Objection, form. 18 19 A. Yes. 19 20 Q. Can you turn now to paragraph 21 47 of your declaration. Take a moment to 22 read that paragraph to yourself. 22	
13 Q. Do you still agree do you 14 still believe that, in your expert 15 opinion, that is the proper construction 16 of mosaicing as used in the Kewazinga 17 patents? 18 MS. CHEN: Objection, form. 19 A. Yes. 19 20 Q. Can you turn now to paragraph 20 Q. Can you declaration. Take a moment to 21 read that paragraph to yourself. 22 read that paragraph to yourself. 23 A. Okay.	
13 Q. Do you still agree do you 14 still believe that, in your expert 15 opinion, that is the proper construction 16 of mosaicing as used in the Kewazinga 17 patents? 18 MS. CHEN: Objection, form. 19 A. Yes. 19 20 Q. Can you turn now to paragraph 21 47 of your declaration. Take a moment to 22 read that paragraph to yourself. 22	

	Page 266		Page 268
1		1 Veritext Legal Solutions 290 W. Mt. Pleasant Ave Suite 3200	
2	CERTIFICATION	2 Livingston, New Jersey 07039 Toll Free: 800-227-8440 Fax: 973-629-1287	
3		3 erratas-cs@veritext.com	
4	I, DAWN MATERA, a Notary Public	4 November 20, 2020 5 Jeffrey Lubin	
5	for and within the State of New York, do	jxlubin@gmail.com 6	
6	hereby certify:	Case Name: Kewazinga Corp. v. Google, LLC	
7	That the witness whose testimony	7 Veritext Reference Number: 4338777	
1	•	8 Witness: Jeffrey Lubin Deposition Date: 11/16/2020	
8	as herein set forth, was duly sworn by	9	
9	me; and that the within transcript is a	Dear Sir/Madam: 10	
10	true record of the testimony given by	Enclosed you will find a transcript of your deposition.  11	
11	said witness.	As the reading and signing have not been expressly	
12	I further certify that I am not	waived, please review the transcript and note any	
13	related to any of the parties to this	changes or corrections on the jurat/errata sheet	
14	action by blood or marriage, and that I	14 included, indicating the page, line number, change and	
15	am in no way interested in the outcome of	15	
16	this matter.	reason for the change. Sign at the bottom of the sheet 16	
17	IN WITNESS WHEREOF, I have	in the presence of a notary except in California where 17	
18	hereunto set my hand this 19th day of	you are signing under penalty of perjury and email	
19	November, 2020.	18 the errata sheet back to us at the address shown above.	
20		If the jurat is not received within thirty days of your receipt of	
	Dawn Materia	20 this letter, the reading and signing will be deemed waived.	
21		21	
22	DAWN MATEKA	Sincerely, 22	
23		Production Department 23	
24		Encl.	
25		24 Cc: Emily Chen, Esq.	
		25 Saunak Desai, Esq.	
	Page 267	25 Saunak Desai, Esq.	Page 269
1	Page 267	, , , , , , , , , , , , , , , , , , ,	Page 269
1 2	Page 267 INDEX	1 Kewazinga Corp. v. Google, LLC	Page 269
2 3	INDEX Witness Page	1 Kewazinga Corp. v. Google, LLC 2 Jeffrey Lubin	Page 269
2 3 4	INDEX	1 Kewazinga Corp. v. Google, LLC 2 Jeffrey Lubin 3 E R R A T A	Page 269
2 3 4 5	INDEX Witness Page JEFFREY LUBIN 5	1 Kewazinga Corp. v. Google, LLC 2 Jeffrey Lubin 3 ERRATA 4	Page 269
2 3 4 5 6	INDEX Witness Page JEFFREY LUBIN 5  EXHIBITS	1 Kewazinga Corp. v. Google, LLC 2 Jeffrey Lubin 3 E R R A T A 4 5 PAGE LINE CHANGE	Page 269
2 3 4 5	INDEX Witness Page JEFFREY LUBIN 5  EXHIBITS No. Page	1 Kewazinga Corp. v. Google, LLC 2 Jeffrey Lubin 3 ERRATA 4 5 PAGE LINE CHANGE 6	Page 269
2 3 4 5 6 7	INDEX Witness Page JEFFREY LUBIN 5  EXHIBITS No. Page	1 Kewazinga Corp. v. Google, LLC 2 Jeffrey Lubin 3 ERRATA 4 5 PAGE LINE CHANGE	Page 269
2 3 4 5 6 7	INDEX Witness Page JEFFREY LUBIN 5  EXHIBITS No. Page Exhibit 1 Claim construction expert report and declaration	1 Kewazinga Corp. v. Google, LLC 2 Jeffrey Lubin 3 ERRATA 4 5 PAGE LINE CHANGE 6 7 Reason: 8	
2 3 4 5 6 7 8	INDEX Witness Page JEFFREY LUBIN 5  EXHIBITS No. Page Exhibit 1 Claim construction expert 8 report and declaration  Exhibit 2 Notice of deposition to 9	1 Kewazinga Corp. v. Google, LLC 2 Jeffrey Lubin 3 E R R A T A 4 5 PAGE LINE CHANGE 6 7 Reason:	
2 3 4 5 6 7 8	INDEX  Witness Page JEFFREY LUBIN 5  EXHIBITS  No. Page Exhibit 1 Claim construction expert 8 report and declaration  Exhibit 2 Notice of deposition to 9 Kewazinga pursuant to Rule	1 Kewazinga Corp. v. Google, LLC 2 Jeffrey Lubin 3 ERRATA 4 5 PAGE LINE CHANGE 6 7 Reason: 8	
2 3 4 5 6 7 8 9	INDEX Witness Page JEFFREY LUBIN 5  EXHIBITS No. Page Exhibit 1 Claim construction expert 8 report and declaration  Exhibit 2 Notice of deposition to 9	1 Kewazinga Corp. v. Google, LLC 2 Jeffrey Lubin 3 ERRATA 4 5 PAGE LINE CHANGE 6	
2 3 4 5 6 7 8	INDEX  Witness Page JEFFREY LUBIN 5  EXHIBITS  No. Page Exhibit 1 Claim construction expert 8 report and declaration  Exhibit 2 Notice of deposition to 9 Kewazinga pursuant to Rule	1 Kewazinga Corp. v. Google, LLC 2 Jeffrey Lubin 3 E R R A T A 4 5 PAGE LINE CHANGE 6 7 Reason: 8 9 Reason: 10 11 Reason:	
2 3 4 5 6 7 8 9	INDEX Witness Page JEFFREY LUBIN 5  EXHIBITS No. Page Exhibit 1 Claim construction expert 8 report and declaration  Exhibit 2 Notice of deposition to 6 Kewazinga pursuant to Rule 30(b)(1)  Exhibit 3 Dr. Keith Hannah's 48 original and supplemental	1 Kewazinga Corp. v. Google, LLC 2 Jeffrey Lubin 3 E R R A T A 4 5 PAGE LINE CHANGE 6	
2 3 4 5 6 7 8 9 10	INDEX Witness Page JEFFREY LUBIN 5  EXHIBITS No. Page Exhibit 1 Claim construction expert 8 report and declaration  Exhibit 2 Notice of deposition to 6 Kewazinga pursuant to Rule 30(b)(1)  Exhibit 3 Dr. Keith Hannah's 48 original and supplemental declaration submitted in	1 Kewazinga Corp. v. Google, LLC 2 Jeffrey Lubin 3 E R R A T A 4 5 PAGE LINE CHANGE 6	
2 3 4 5 6 7 8 9 10	INDEX  Witness Page JEFFREY LUBIN 5  EXHIBITS  No. Page Exhibit 1 Claim construction expert 8 report and declaration  Exhibit 2 Notice of deposition to 9 Kewazinga pursuant to Rule 30(b)(1)  Exhibit 3 Dr. Keith Hannah's 48 original and supplemental declaration submitted in connection with Microsoft	1 Kewazinga Corp. v. Google, LLC 2 Jeffrey Lubin 3 E R R A T A 4 5 PAGE LINE CHANGE 6	
2 3 4 5 6 7 8 9 10 11 12	INDEX Witness Page JEFFREY LUBIN 5  EXHIBITS No. Page Exhibit 1 Claim construction expert 8 report and declaration  Exhibit 2 Notice of deposition to 6 Kewazinga pursuant to Rule 30(b)(1)  Exhibit 3 Dr. Keith Hannah's 48 original and supplemental declaration submitted in	1 Kewazinga Corp. v. Google, LLC 2 Jeffrey Lubin 3 E R R A T A 4 5 PAGE LINE CHANGE 6	
2 3 4 5 6 7 8 9 10 11 12 13	INDEX  Witness Page JEFFREY LUBIN 5  EXHIBITS  No. Page Exhibit 1 Claim construction expert 8 report and declaration  Exhibit 2 Notice of deposition to 9 Kewazinga pursuant to Rule 30(b)(1)  Exhibit 3 Dr. Keith Hannah's 48 original and supplemental declaration submitted in connection with Microsoft case	1 Kewazinga Corp. v. Google, LLC 2 Jeffrey Lubin 3 E R R A T A 4 5 PAGE LINE CHANGE 6	
2 3 4 5 6 7 8 9 10 11 12	INDEX  Witness Page JEFFREY LUBIN 5  EXHIBITS  No. Page Exhibit 1 Claim construction expert 8 report and declaration  Exhibit 2 Notice of deposition to 9 Kewazinga pursuant to Rule 30(b)(1)  Exhibit 3 Dr. Keith Hannah's 48 original and supplemental declaration submitted in connection with Microsoft	1 Kewazinga Corp. v. Google, LLC 2 Jeffrey Lubin 3 E R R A T A 4 5 PAGE LINE CHANGE 6	
2 3 4 5 6 7 8 9 10 11 12 13 14 15	INDEX  Witness Page JEFFREY LUBIN 5  EXHIBITS  No. Page Exhibit 1 Claim construction expert 8 report and declaration  Exhibit 2 Notice of deposition to 9 Kewazinga pursuant to Rule 30(b)(1)  Exhibit 3 Dr. Keith Hannah's 48 original and supplemental declaration submitted in connection with Microsoft case	1 Kewazinga Corp. v. Google, LLC 2 Jeffrey Lubin 3 E R R A T A 4 5 PAGE LINE CHANGE 6	
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	INDEX  Witness Page JEFFREY LUBIN 5  EXHIBITS  No. Page Exhibit 1 Claim construction expert 8 report and declaration  Exhibit 2 Notice of deposition to 9 Kewazinga pursuant to Rule 30(b)(1)  Exhibit 3 Dr. Keith Hannah's 48 original and supplemental declaration submitted in connection with Microsoft case	1 Kewazinga Corp. v. Google, LLC 2 Jeffrey Lubin 3 E R R A T A 4 5 PAGE LINE CHANGE 6 7 Reason: 8 9 Reason: 10	
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	INDEX  Witness Page JEFFREY LUBIN 5  EXHIBITS  No. Page Exhibit 1 Claim construction expert 8 report and declaration  Exhibit 2 Notice of deposition to 9 Kewazinga pursuant to Rule 30(b)(1)  Exhibit 3 Dr. Keith Hannah's 48 original and supplemental declaration submitted in connection with Microsoft case	1 Kewazinga Corp. v. Google, LLC 2 Jeffrey Lubin 3 E R R A T A 4 5 PAGE LINE CHANGE 6	
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	INDEX  Witness Page JEFFREY LUBIN 5  EXHIBITS  No. Page Exhibit 1 Claim construction expert 8 report and declaration  Exhibit 2 Notice of deposition to 9 Kewazinga pursuant to Rule 30(b)(1)  Exhibit 3 Dr. Keith Hannah's 48 original and supplemental declaration submitted in connection with Microsoft case	1 Kewazinga Corp. v. Google, LLC 2 Jeffrey Lubin 3 E R R A T A 4 5 PAGE LINE CHANGE 6	
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	INDEX  Witness Page JEFFREY LUBIN 5  EXHIBITS  No. Page Exhibit 1 Claim construction expert 8 report and declaration  Exhibit 2 Notice of deposition to 9 Kewazinga pursuant to Rule 30(b)(1)  Exhibit 3 Dr. Keith Hannah's 48 original and supplemental declaration submitted in connection with Microsoft case	1 Kewazinga Corp. v. Google, LLC 2 Jeffrey Lubin 3 E R R A T A 4 5 PAGE LINE CHANGE 6	
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	INDEX  Witness Page JEFFREY LUBIN 5  EXHIBITS  No. Page Exhibit 1 Claim construction expert 8 report and declaration  Exhibit 2 Notice of deposition to 9 Kewazinga pursuant to Rule 30(b)(1)  Exhibit 3 Dr. Keith Hannah's 48 original and supplemental declaration submitted in connection with Microsoft case	1 Kewazinga Corp. v. Google, LLC 2 Jeffrey Lubin 3 E R R A T A 4 5 PAGE LINE CHANGE 6	
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	INDEX  Witness Page JEFFREY LUBIN 5  EXHIBITS  No. Page Exhibit 1 Claim construction expert 8 report and declaration  Exhibit 2 Notice of deposition to 9 Kewazinga pursuant to Rule 30(b)(1)  Exhibit 3 Dr. Keith Hannah's 48 original and supplemental declaration submitted in connection with Microsoft case	1 Kewazinga Corp. v. Google, LLC 2 Jeffrey Lubin 3 E R R A T A 4 5 PAGE LINE CHANGE 6	

68 (Pages 266 - 269)